

## Percentage of Acute Confirmed Hepatitis B Cases with Complete Information — WV, 2015 By Region

(Percent represents the proportion of cases with a complete (yes or no) answer)

<u>Surveillance Indicator</u>	West Virginia	Southern	Western	Eastern	Northeastern	Northwestern	Central
<b>Total Cases</b>	<b>272</b>	<b>50</b>	<b>73</b>	<b>20</b>	<b>15</b>	<b>28</b>	<b>86</b>
<b><u>Demographic</u></b>							
County	100%	100%	100%	100%	100%	100%	100%
Age	100%	100%	100%	100%	100%	100%	100%
Gender	100%	100%	100%	100%	100%	100%	100%
Ethnicity	89%	96%	86%	70%	80%	86%	94%
Race	90%	96%	97%	75%	80%	82%	93%
<b><u>Clinical</u></b>							
Symptomatic (yes) Y/N	100%	100%	100%	100%	100%	100%	100%
Jaundice	99%	100%	99%	100%	100%	96%	95%
Was the patient a <b>contact</b> of a person with confirmed or suspected acute or chronic <b>HBV infection</b> ?	63%	72%	67%	60%	53%	57%	60%
Was the patient <b>EVER treated for STD</b> ?	71%	92%	72%	75%	40%	54%	66%
Did the patient <b>inject drugs</b> not prescribed by a doctor?	89%	90%	86%	95%	67%	89%	94%
Did the patient <b>use street drugs</b> but not inject?	81%	86%	78%	90%	67%	82%	81%

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Did the patient <b>undergo hemodialysis</b> ?	81%	94%	78%	90%	73%	93%	72%
Did the patient have an <b>accidental stick or puncture</b> with a needle or other contaminated object?	77%	94%	77%	90%	60%	75%	69%
Did the patient receive <b>blood or blood products (transfusion)</b> ?	79%	94%	77%	90%	67%	82%	71%
Did the patient receive any <b>IV infusion and/or injection in the outpatient setting</b> ?	79%	94%	77%	90%	67%	79%	72%
Did the patient have other <b>exposure to someone else's blood</b> ?	71%	86%	70%	85%	47%	57%	67%
Was the patient employed in a <b>medical or dental field</b> involving direct contact with human blood?	81%	94%	78%	90%	73%	89%	72%
Was the patient employed as a <b>public safety worker</b> having direct contact with human blood?	81%	94%	79%	90%	80%	89%	71%
Did the patient receive a <b>tattoo</b> ?	76%	94%	78%	90%	53%	64%	73%

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Did the patient have any part of their <b>body pierced</b> (other than ear)?	76%	94%	75%	90%	53%	64%	72%
Did the patient have <b>dental work or oral surgery</b> ?	78%	94%	75%	90%	60%	71%	72%
Did the patient have <b>surgery</b> ?	79%	94%	75%	90%	67%	79%	72%
Was the patient <b>hospitalized</b> ?	80%	94%	77%	90%	73%	82%	73%
Was the patient a <b>resident of long-term care facility</b> ?	81%	92%	77%	90%	80%	86%	74%
Was the patient <b>incarcerated for longer than 24 hours</b> ?	75%	94%	75%	85%	67%	57%	70%
During his/her lifetime, was the patient <b>EVER incarcerated for longer than 6 months</b> ?	74%	92%	75%	85%	53%	57%	69%
Has the patient received the hepatitis B vaccine?	63%	82%	66%	70%	40%	54%	56%
Education provided?	92%	100%	90%	100%	80%	89%	88%

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Lost to follow up (y/n answer)?	99%	100%	90%	100%	100%	100%	98%
<b>Patient lost to follow up...? (answered yes) 2015</b>	43/272 (16%)	3/50 (6%)	15/73 (21%)	3/20 (15%)	4/15 (27%)	5/28 (18%)	13/86 (15%)
<b>Patient lost to follow up...? (answered yes) 2014</b>	32/186 (17%)	5/50 (10%)	13/35 (37%)	5/15 (33%)	0/10 (0%)	4/15 (27%)	5/61 (8%)

### **Limitations**

- Patients can be difficult to locate due to changing or unreliable contact information.
- The proportion of patients who do not provide accurate information such as illegal activity to Local Health Department.
- Lack of historical vaccination documentation to accurately reflect hepatitis B infection in previously vaccinated persons indicating vaccine failure.

### **Recommendations**

- A differentiation between incomplete responses, unknown, and those responses where the local health department is unable to communicate with the patient.
- Accurate documentation from patient primary care provider of historical patient vaccination records.
- State resources available to assist Regions with case investigations include: The WV Health Statistics Center, DSHH Disease Investigation Specialists, Hepatitis B Epidemiologist, Perinatal Hepatitis B Program, Hospital Infection Preventionists, and Local Hospital Electronic Medical Records Systems access.